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L4: Entry 2 of 2 File: USPT Mar 6, 2001

DOCUMENT-IDENTIFIER: US 6197586 B1
TITLE: Chondrocyte-like cells useful for tissue engineering and methods

Detailed Description Text (45):
Human neonatal foreskin fibroblasts (HFFs) were cultured in high density micromasses (2.0.times.10.sup.7 cells/ml in 10 .mu.l) and treated with 40 mM lactic acid and 200 nM, staurosporine for a period of 24 hours as previously described by Examples 1 and 2. After the initial culture period, the cells were maintained in chemically defined medium consisting of minimum essential medium supplemented with a 1X mixture of Insulin-Transferrin-Selenium (Life Technologies, Gibco BRL, Gaithersburg, Md.), 4.5 g/l glucose, 10 mM .beta.-glycerophosphate, and antibiotics. Dermal fibroblasts isolated from 36 year-old donor tissue were similarly cultured. Additionally, dermal fibroblasts were seeded on three-dimensional polymer scaffolds composed of a non-woven polyglycolic acid (PGA) (Davis and Geck, Danbury, Conn.) mesh reinforced in a dilute solution of 100 kDa poly(L-lactic acid) (PLLA) (Polysciences, Warrington, Pa.).